






Fluid and hydraulics lab.

	<p>Device Name: Hydraulic Bench</p>
	<p>Used For: designed as a portable and self-contained service module for the range of accessories.</p>
	<p>Experiment associated with it: Bernoulli's theorem apparatus. Orifice and jet flow apparatus. Open channel. Impact of water jet.</p>
<p>Courses associated with it: Fluid mechanics and hydraulics.</p>	
	<p>Device Name: center of pressure.</p>
	<p>Used For: To determine the position of the center of pressure on the rectangular face of the partially or entirely submerged object in the water.</p>
	<p>Experiment associated with it: center of pressure.</p>
<p>Courses associated with it: Fluid mechanics.</p>	
	<p>Device Name: Orifice and jet flow.</p>
	<p>Used For: To study the flow through an orifice and determine the discharge coefficient, velocity coefficient and the actual jet profile.</p>
	<p>Experiment associated with it: orifice and jet flow.</p>
<p>Courses associated with it: Fluid mechanics.</p>	
	<p>Device Name: impact of water jet.</p>
	<p>Used For: To produce and measure force resulted by a water jet when it strikes a target.</p>
	<p>Experiment associated with it: impact of water jet.</p>
<p>Courses associated with it:</p>	

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	Fluid mechanics.
	Device Name: fluid friction measurement.
	Used For: To demonstrate the friction loss in pipes, valves and other fittings. To determine experimentally the relationship between friction factor and Reynolds number for flow of water in a pipe.
	Experiment associated with it: Fluid friction.
	Courses associated with it: Fluid mechanics.
	Device Name: hydraulic flow demonstrator.
	Used For: demonstration of various flow phenomena.
	Experiment associated with it: <ul style="list-style-type: none"> • Slow and fast flow. • Hydraulic jump. • Flow beneath sluice gate. • Flow through rectangular sharp crested weir.
	Courses associated with it: hydraulic.
	Device Name: Series and parallel pump test.
	Used For: • To study the relation between head and flow rate of two pumps where connected in parallel or series.
	Experiment associated with it: Series and parallel pumps.
Courses associated with it: hydraulic.	